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Pour toute question ou tout commentaire, nous contacter.
Si tiene dudas o comentarios, contáctenos.*

1-800-4-DEWALT • www.dewalt.com

**INSTRUCTION MANUAL
GUIDE D'UTILISATION
MANUAL DE INSTRUCCIONES**

INSTRUCTIVO DE OPERACIÓN, CENTROS DE SERVICIO Y PÓLIZA
DE GARANTÍA. **ADVERTENCIA:** LÉASE ESTE INSTRUCTIVO ANTES
DE USAR EL PRODUCTO.

DEWALT®

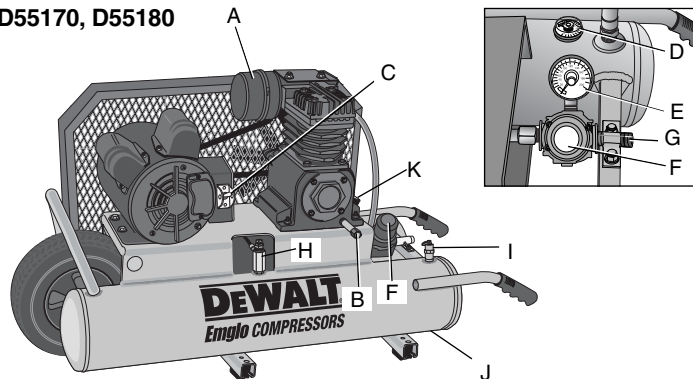
D55170, D55180, D55390, D55395, D55570, D55575, D55580, D55585
Contractor's Electric Wheeled Portable Air Compressor
Compresseur d'air électrique portatif sur roues de classe entrepreneur
Compresor de aire eléctrico portátil con ruedas para contratistas

Air Compressor (Fig.1)

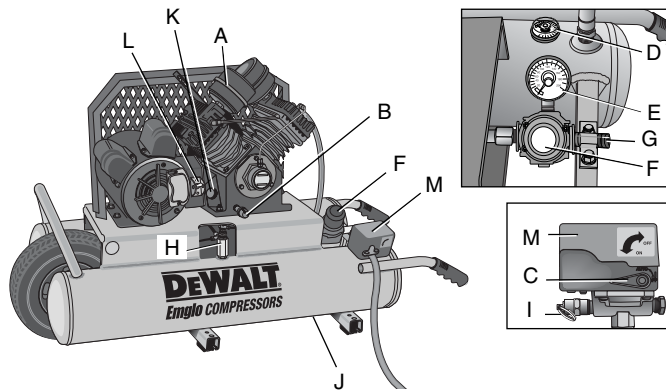
- A. Pump Air Intake Filter
- B. Pump Oil Drain Plug
- C. On/Off Switch
- D. Air Tank Pressure Gauge
- E. Regulated Pressure Gauge
- F. Pressure Regulator
- G. Air Outlet
- H. Pilot Valve
- I. Safety Valve
- J. Air Tank Drain Valves
- K. Pump Oil Dipstick/Oil Fill Plug
- L. Dual Voltage Control
- M. Pressure Switch

FIG. 1

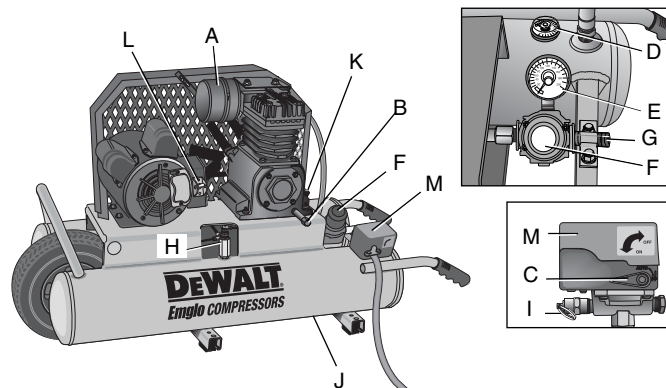
D55170, D55180



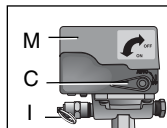
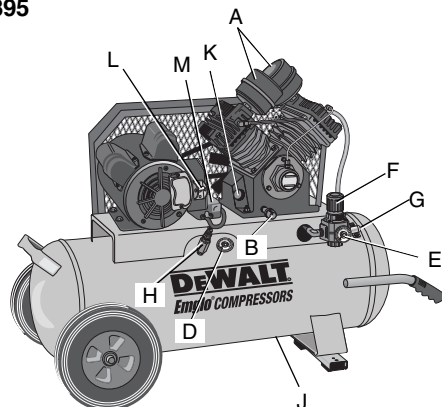
D55390



D55570, D55580



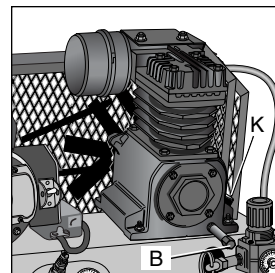
D55395



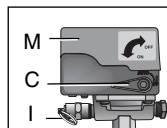
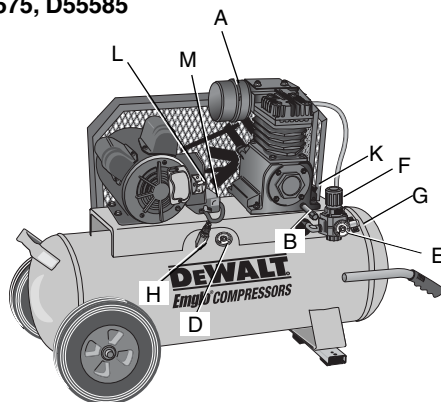
Pump Specifications

K PUMP

Inline, vertical twin cylinder
Single Stage
Oil Lubricated
Cast Iron crankcase cylinder, and head
Bore: 2.5" (63.5 mm)
Stroke: 2" (50.8 mm)
Weight: 47 lbs. (21.3 kg.)
Oil Capacity: 14 oz. (414 mL)

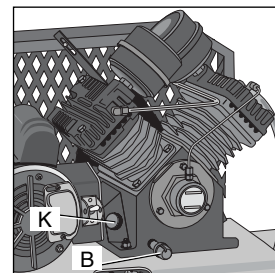


D55575, D55585



G PUMP

V - twin 4 cylinder
Single Stage
Oil Lubricated
Cast Iron crankcase cylinder, and head
Bore: 2.5" (63.5 mm)
Stroke: 2.375" (60.3 mm)
Weight: 69 lbs. (31.3 kg.)
Oil Capacity: 30 oz. (887 mL)



Specifications

MODEL	WEIGHT	HEIGHT	WIDTH	LENGTH	AIR TANK CAPACITY (GALLONS)	APPROX. PILOT VALVE RESET/ CUT-IN PRESSURE	APPROX. BLOW OFF/ CUT-OUT PRESSURE	SCFM @ 100 PSI (689.5 kPa)	PUMP	MOTOR
D55170	168 lbs. (76.2 kg.)	33.0 in. (838.2 mm)	22.5 in. (571.5 mm)	45.0 in. (1143.0 mm)	8 (30.3 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	6.5	K	1.5 HP
D55180	172 lbs. (78.0 kg.)	23.5 in. (596.9 mm)	18.3 in. (463.6 mm)	43.0 in. (1092.2 mm)	8 (30.3 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	8.4	K	2 HP
D55390	231 lbs. (104.8 kg.)	26.3 (666.8 mm)	18.3 in. (463.6 mm)	43.0 in. (1092.2 mm)	8 (30.3 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	13.8	G	3 HP
D55395	254 lbs. (115.2 kg.)	32.0 in. (812.8 mm)	20.3 in. (514.4 mm)	43.0 in. (1092.2 mm)	17 (64.4 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	13.8	G	3 HP
D55570	168 lbs. (76.2 kg.)	23.5 in. (596.9 mm)	18.25 in. (463.6 mm)	43.0 in. (1092.2 mm)	8 (30.3 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	6.5	K	1.5 HP
D55575	194 lbs. (88.0 kg.)	29.8 in. (755.7 mm)	20.3 in. (514.4 mm)	43.0 in. (1092.2 mm)	17 (64.4 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	6.5	K	1.5 HP
D55580	175 lbs. (79.4 kg.)	23.5 in. (596.9 mm)	18.3 in. (463.6 mm)	43.0 in. (1092.2 mm)	8 (30.3 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	8.4	K	2 HP
D55585	201 lbs. (91.2 kg.)	29.8 in. (755.7 mm)	20.3 in. (514.4 mm)	43.0 in. (1092.2 mm)	17 (64.4 liters)	105 PSI (723.9 kPa)	125 PSI (861.8 kPa)	8.4	K	2 HP

MOTOR SPECIFICATIONS

1.5 HP

115V, 15 A, 60Hz

230V, 8 A, 60 Hz

Four pole, induction type, 1725 RPM

Minimum branch circuit requirement: 15 A @ 115V and 230V

Fuse Type: Time delay

2 HP

115V, 20 A, 60 Hz

230V, 10 A, 60 Hz

Four pole, induction type, 1725 RPM

Minimum branch circuit requirement: 20 A @ 115V

15 A @ 230V

Fuse Type: Time delay

3 HP

230V, 10 A, 60 Hz

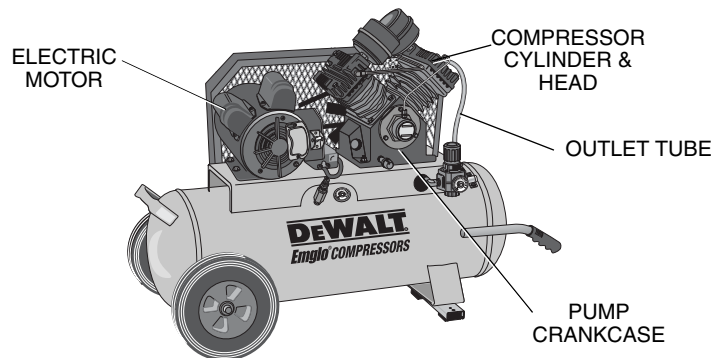
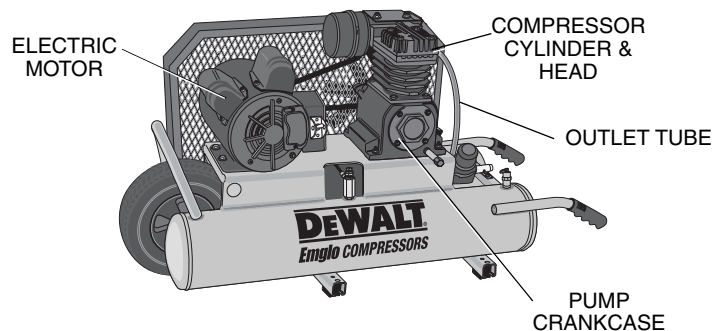
Four pole, induction type, 1725 RPM

Minimum branch circuit requirement: 15 A @ 230V

Fuse Type: Time delay

Hot Surfaces

FIG. 2



Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.

▲DANGER: Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.

▲WARNING: Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.

▲CAUTION: Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

CAUTION: Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in **property damage**.

IF YOU HAVE ANY QUESTIONS OR COMMENTS ABOUT THIS OR ANY DEWALT TOOL, CALL US TOLL FREE AT: **1-800-4-DEWALT (1-800-433-9258)**

Important Safety Instructions

▲WARNING: Do not operate this unit until you read and understand this instruction manual for safety, operation and maintenance instructions.

▲WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some example of these chemicals are:

- lead from lead-based paints
- crystalline silica from bricks and cement and other masonry products
- arsenic and chromium from chemically-treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear OSHA/MSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury.

▲WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.

SAVE THESE INSTRUCTION



▲DANGER: RISK OF EXPLOSION OR FIRE

WHAT CAN HAPPEN

- It is normal for electrical contacts within the motor and pressure switch to spark.

HOW TO PREVENT IT

- Always operate the compressor in a well ventilated area free of combustible materials, gasoline, or solvent vapors.

- If electrical sparks from compressor come into contact with flammable vapors, they may ignite, causing fire or explosion.
- Restricting any of the compressor ventilation openings will cause serious overheating and could cause fire.
- Unattended operation of this product could result in personal injury or property damage. To reduce the risk of fire, do not allow the compressor to operate unattended.
- If spraying flammable materials, locate compressor at least 20' (6.1 m) away from spray area. An additional length of hose may be required.
- Store flammable materials in a secure location away from compressor.
- Never place objects against or on top of compressor.
- Operate compressor in an open area at least 12" (30.5 cm) away from any wall or obstruction that would restrict the flow of fresh air to the ventilation openings.
- Operate compressor in a clean, dry well ventilated area. Do not operate unit indoors or in any confined area.
- Always remain in attendance with the product when it is operating.
- Always turn off and unplug unit when not in use.



⚠ DANGER: RISK TO BREATHING (ASPHYXIATION)

WHAT CAN HAPPEN

- The compressed air directly from your compressor is not safe for breathing. The air stream may contain carbon monoxide, toxic vapors or solid particles from the air tank. Breathing these contaminant's can cause serious injury or death.
- Sprayed materials such as paint, paint solvents, paint remover, insecticides and weed killers, may contain harmful vapors and poisons.

HOW TO PREVENT IT

- Air obtained directly from the compressor should never be used to supply air for human consumption. In order to use air produced by this compressor for breathing, suitable filters and in-line safety equipment must be properly installed. In-line filters and safety equipment used in conjunction with the compressor must be capable of treating air to all applicable local and federal codes prior to human consumption.
- Work in an area with good cross ventilation. Read and follow the safety instructions provided on the label or safety data sheets for the materials you are spraying. Always use certified safety equipment: OSHA/MSHA/NIOSH respiratory protection designed for use with your specific application.



⚠ DANGER: RISK OF INJURY OR PROPERTY DAMAGE WHEN TRANSPORTING OR STORING

WHAT CAN HAPPEN

- Oil can leak or spill and could result in fire or breathing hazard; serious injury or death can result. Oil leaks will damage carpet, paint or other surfaces in vehicles or trailers.

HOW TO PREVENT IT

- Always place compressor on a protective mat when transporting to protect against damage to vehicle from leaks. Remove compressor from vehicle immediately upon arrival at your destination. Always keep compressor level and never lie on its side.



⚠ WARNING: RISK OF BURSTING

Air Tank: The air tank on your Air Compressor is designed and may be UM coded (for units with air tanks greater than 6 inch diameter) according to ASME Section VIII, Div. 1 rules. All pressure vessels should be inspected once every two years. To find your state pressure vessels inspector, look under the Division of Labor and Industries in the government section of a phone book or call 1-800-4-DEWALT for assistance.

The following conditions could lead to a weakening of the air tank and result in a violent air tank explosion:

WHAT CAN HAPPEN

- Failure to properly drain condensed water from air tank, causing rust and thinning of the steel air tank.
- Modifications or attempted repairs to the air tank.
- Unauthorized modifications to the, pilot valve, safety valve or any other components which control air tank pressure.

HOW TO PREVENT IT

- Drain air tank daily or after each use. If air tank develops a leak, replace it immediately with a new air tank or replace the entire compressor.
- Never drill into, weld, or make any modifications to the air tank or its attachments. Never attempt to repair a damaged or leaking air tank. Replace with a new air tank.
- The air tank is designed to withstand specific operating pressures. Never make adjustments or parts substitutions to alter the factory set operating pressures.

Attachments & accessories:

- Exceeding the pressure rating of air tools, spray guns, air operated accessories, tires and other inflatables can cause them to explode or fly apart, and could result in serious injury.
- Follow the equipment manufacturers recommendation and never exceed the maximum allowable pressure rating of attachments. Never use compressor to inflate small low pressure objects such as children's toys, footballs, basketballs, etc.

Tires:

- Over inflation of tires could result in serious injury and property damage.
- Use a tire pressure gauge to check the tires pressure before each use and while inflating tires; see the tire sidewall for the correct tire pressure.

NOTE: Air tanks, compressors and similar equipment used to inflate tires can fill small tires similar to these very rapidly. Adjust pressure regulator on air supply to no more than the rating of the tire pressure. Add air in small increments and frequently use the tire gauge to prevent over inflation.

**⚠ WARNING: RISK OF ELECTRICAL SHOCK****WHAT CAN HAPPEN**

- This air compressor is powered by electricity. Like any other electrically powered device, If it is not used properly it may cause electric shock.

HOW TO PREVENT IT

- Never operate the compressor outdoors when it is raining or in wet conditions.
- Never operate compressor with protective covers removed or damaged.

- Repairs attempted by unqualified personnel can result in serious injury or death by electrocution.
- Any electrical wiring or repairs required on this product should be performed by a DEWALT factory service center or a DEWALT authorized service center in accordance with national and local electrical codes.
- **Electrical Grounding:** Failure to provide adequate grounding to this product could result in serious injury or death from electrocution. See **Grounding Instructions** under *Installation*.
- Make sure the electrical circuit to which the compressor is connected provides proper electrical grounding, correct voltage and adequate fuse protection.

**⚠ WARNING: RISK FROM FLYING OBJECTS****WHAT CAN HAPPEN**

- The compressed air stream can cause soft tissue damage to exposed skin and can propel dirt, chips, loose particles and small objects at high speed, resulting in property damage or personal injury.

HOW TO PREVENT IT

- Always wear certified safety equipment: ANSI Z87.1 eye protection (CAN/CSA Z94.3) with side shields when using the compressor.
- Never point any nozzle or sprayer toward any part of the body or at other people or animals.

- Always turn the compressor off and bleed pressure from the air hose and air tank before attempting maintenance, attaching tools or accessories.



⚠ WARNING: RISK OF HOT SURFACES

WHAT CAN HAPPEN

- Touching exposed metal such as the compressor head, engine head, engine exhaust or outlet tubes, can result in serious burns.

HOW TO PREVENT IT

- Never touch any exposed metal parts on compressor during or immediately after operation. Compressor will remain hot for several minutes after operation.
- Do not reach around protective shrouds or attempt maintenance until unit has been allowed to cool.



⚠ WARNING: RISK FROM MOVING PARTS

WHAT CAN HAPPEN

- Moving parts such as the pulley, flywheel and belt can cause serious injury if they come into contact with you or your clothing.

HOW TO PREVENT IT

- Never operate the compressor with guards or covers which are damaged or removed.
- Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- Air vents may cover moving parts and should be avoided as well.
- Attempting to operate compressor with damaged or missing parts or attempting to repair compressor with protective shrouds removed can expose you to moving parts and can result in serious injury.
- Any repairs required on this product should be performed by a DEWALT factory service center or a DEWALT authorized service center.



⚠ WARNING: RISK OF UNSAFE OPERATION

WHAT CAN HAPPEN

- Unsafe operation of your air compressor could lead to serious injury or death to you or others.

HOW TO PREVENT IT

- Review and understand all instructions and warnings in this manual.
- Become familiar with the operation and controls of the air compressor.
- Keep operating area clear of all persons, pets and obstacles.
- Keep children away from the air compressor at all times.
- Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.
- Never defeat the safety features of this product.

- Equip area of operation with a fire extinguisher.
- Do not operate machine with missing, broken or unauthorized parts.
- Never stand on the compressor.



⚠ WARNING: RISK OF INJURY FROM LIFTING

WHAT CAN HAPPEN

- Serious injury can result from attempting to lift too heavy an object.

HOW TO PREVENT IT

- The compressor is too heavy to be lifted by one person. Obtain assistance from others before lifting.



⚠ CAUTION: RISK FROM NOISE

WHAT CAN HAPPEN

- Under some conditions and duration of use, noise from this product may contribute to hearing loss.

HOW TO PREVENT IT

- Always wear certified safety equipment: ANSI S12.6 (S3.19) hearing protection.

**SAVE THESE INSTRUCTIONS
FOR FUTURE USE**

FEATURES (Fig. 1)

DUAL CONTROL

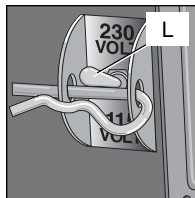
D55390, D55395, D55570, D55575, D55580, D55585

Dual control allows the compressor to operate in the constant run or the stop/start mode of operation. The pilot valve (H) is used to control the compressor when operating in the constant run mode. The pressure switch is used to control the compressor when operating in the stop/start mode. The mode of operation is determined by the amount of time the compressor will be required to supply air. If the demand for air is infrequent, then the unit should be operated in the stop/start mode to minimize unnecessary run time and to save energy. If there is a frequent or extended demand for air, and/or the unit is located in a remote area where access to the compressor is difficult, the unit should be operated in the constant run mode to minimize the number of times the motor must start in an hour to ensure good motor life.

DUAL VOLTAGE

D55570, D55575, D55580, D55585

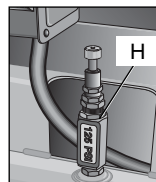
The dual voltage (L) feature allows the compressor to operate in 115 or 230 volt operation. The advantage of running in the 230 volt operation is a lower current draw. Lower current draw may be necessary in areas with a poor power source. Lower current also reduces operating costs. See **230 Volt Conversion** under *Installation*.



PILOT VALVE

D55390, D55395, D55570, D55575, D55580, D55585

When the maximum air tank pressure is obtained, the pilot valve (H) will blow-off. This will cause the compressor to exhaust the air through the pump head and not fill the tank.

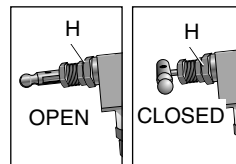


Pilot Valve with Manual Lock (D55170, D55180):

The manual lock allows you to manually unload the compressor with air pressure in the air tank.

To operate the manual lock:

Rotate the manual lock pilot valve lever to the **open** position to prevent air tank pressure buildup. Rotate manual lock pilot valve lever to the **closed** position after starting the motor to allow air tank pressure to build. **NOTE:** Air will not build in tank when manual lock pilot valve lever is in the **open** position.



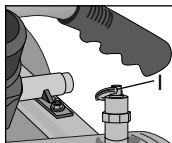
PRESSURE SWITCH

D55390, D55395, D55570, D55575, D55580, D55585

The pressure switch (M) automatically starts the motor when the air tank pressure drops below the factory set cut-in pressure. It stops the motor when the air tank pressure reaches the factory set cut-out pressure. The pressure release valve located on the side of the pressure switch, is designed to automatically release compressed air from the compressor head and the outlet tube when the air compressor reaches cut-out pressure or is shut off. The pressure release valve allows the motor to restart freely. When the motor stops running, air will be heard escaping from this valve for a few seconds. No air should be heard leaking when the motor is running.

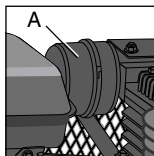
SAFETY VALVE

This valve (I) is designed to prevent system failures by relieving pressure from the system when the compressed air reaches a predetermined level. The valve is preset by the manufacturer and must not be removed or modified in any way.



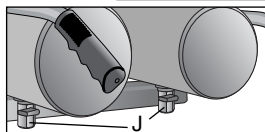
AIR INTAKE FILTER

The filter (A) is designed to clean air entering the pump. To ensure the pump continually receives a clean, cool and dry air supply the filter must always be clean and the filter intake must be free from obstructions.



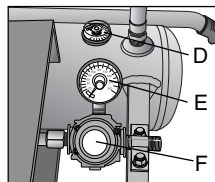
AIR TANK DRAIN VALVES

The drain valve (J) is used to remove moisture from the air tank after the air compressor is shut off.



AIR TANK PRESSURE GAUGE

The air tank pressure gauge (D) indicates air pressure in the air tank.



REGULATED PRESSURE GAUGE

The regulated pressure gauge (E) indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator and is always less or equal to the air tank pressure.

REGULATOR

The regulator knob (F) controls the air pressure coming from the air tank.

To Adjust Regulator:

1. Pull regulator knob (F) out.

2. Turn knob clockwise to increase regulated pressure and counterclockwise to decrease regulated pressure.
3. When desired pressure is shown on the regulated pressure gauge push knob in to lock.

INSTALLATION

Assembly (Fig. 1)

INSTALLING HOSES

▲WARNING: Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.

1. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
2. Apply sealant tape to hose threads.
3. Assemble hose to air outlet (G). **IMPORTANT:** Do not assemble splitters directly to the air outlet (G).

NOTE: Assembling quick connect bodies to air outlet (G) and quick connect plugs to hose ends make connecting and disconnecting hoses simple and easy. Quick connect bodies and plugs are available for purchase from your local dealer or authorized service center.

DISCONNECTING HOSES

▲WARNING: Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.

1. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
2. Remove hose(s) from air outlet(s) (G).

Lubrication and Oil

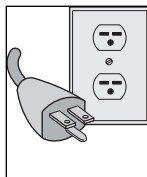
AIR COMPRESSOR

The air compressor pump was filled **WITH** oil at the manufacturer. Check air compressor pump oil level before operating unit. See **Compressor Pump Oil** under *Maintenance*.

230 Volt Conversion

D55570, D55575, D55580, D55585

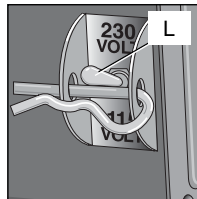
To operate the compressor at 230 volts replace the 115 volt plug supplied on the motor cord with a UL/CSA listed plug suitable for 230 volts and the rated amps of the compressor, see *Motor Specifications* at the beginning of this manual. A 230 volt plug as shown in the diagram may be purchased at a local hardware or electrical supply store.



1. Follow the plug manufacturer installation procedures, contact a qualified electrician, a DEWALT service center or call 1-800-4-DEWALT for assistance. **IMPORTANT:** The compressor must comply with all local and national electrical codes after the 230 volt plug is installed.

▲WARNING: Ensure the 230 volt cord plug end is properly connected before operating in 230 volt mode.

2. Remove the pin on the 115/230 dual voltage control switch.
3. Move the 115/230 dual voltage control switch (L) to the 230 volt position.
4. Replace the pin.



▲CAUTION: Once the unit has been converted to 230 volts the 115/230 dual control switch can not be placed in the 115 volt position until the cord plug is replaced with a UL/CSA listed cord plug suitable for 115 volts and the rated amps of the compressor, See *Motor Specifications*.

▲WARNING: Do not operate this unit until you read and understand this instruction manual for safety, operation and maintenance instructions.

D55170, D55180

▲WARNING: Risk of electrical shock. Ensure motor is disconnected from the power source before rewiring motor leads.

The motor supplied with this compressor is a dual voltage, 115/230 volts motor. It is wired for 115 volt but can be converted to 230 volt operation. Instructions for connecting the motor for operation at 230 volt can be found printed on the label attached to the side of the motor. After converting to 230 volt operation, the attached three-prong 115 volt motor cord assembly must be replaced with a three-prong 230 volt motor cord assembly. The 230 motor cord assembly may be purchased at your local hardware or electrical supply store. Follow the motor cord manufacturer installation procedures, contact a qualified electrician, a DEWALT service center or call 1-800-4-DEWALT for assistance. **IMPORTANT:** The compressor must comply with all local and national electrical codes after the 230 volt motor cord is installed.

▲WARNING: Do not operate this unit until you read and understand this instruction manual for safety, operation and maintenance instructions.

D55390, D55395

The motor supplied with this compressor is 230 volt.

Grounding Instructions

▲WARNING: Risk of electrical shock. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. This air compressor must be properly grounded.

The portable air compressor is equipped with a cord having a grounding wire with an appropriate grounding plug.

1. The cord set and plug (N) with this unit contains a grounding pin (O). This plug **MUST** be used with a grounded outlet (P).

IMPORTANT: The outlet being used must be installed and grounded in accordance with all local codes and ordinances.

2. Ensure the outlet being used has the same configuration as the grounded plug. DO NOT USE AN ADAPTER.
3. Inspect the plug and cord before each use. Do not use if there are signs of damage.
4. If these grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded, have the installation checked by a qualified electrician.

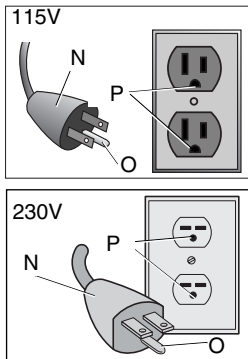
▲ DANGER: Risk of electrical shock. IMPROPER GROUNDING CAN RESULT IN ELECTRICAL SHOCK.

- Do not modify the plug provided. If it does not fit the available outlet, a correct outlet should be installed by a qualified electrician.
- Repairs to the cord set or plug **MUST** be made by a qualified electrician.

Extension Cords

Using extension cords is not recommended. The use of extension cords will cause voltage to drop resulting in power loss to the motor and overheating.

Instead of using an extension cord, increase the working reach of the air hose by attaching another length of hose to its end. Attach additional lengths of hose as needed.



If an extension cord must be used, be sure it is:

- a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the product
- in good condition
- no longer than 50 feet (15.2 m)
- 12 gauge (AWG) or larger. (Wire size increases as gauge number decreases. 10 AWG and 8 AWG may also be used. DO NOT USE 14 OR 16 AWG.)

Voltage and Circuit Protection

Refer to **Voltage and Minimum Branch Circuit Requirements** under *Motor Specifications*.

▲ CAUTION: Certain air compressors can be operated on a 15 amp circuit if the following conditions are met.

- Voltage supply to circuit must comply with the National Electrical Code.
- Circuit is not used to supply any other electrical needs.
- Extension cords comply with specifications.
- Circuit is equipped with a sufficient size circuit breaker or time delay fuse for the motor set up, see *Motor Specifications*. **NOTE:** If compressor is connected to a circuit protected by fuses, use only time delay fuses. Time delay fuses should be marked "D" in Canada and "T" in the US.

If any of the above conditions cannot be met, or if operation of the compressor repeatedly causes interruption of the power, it may be necessary to operate it from a circuit capable of providing a larger amount of current, see *Motor Specifications*. It is not necessary to change the cord set.

Compatibility

Air tools and accessories that are run off the compressor must be compatible with petroleum based products. If you suspect that a material is not compatible with petroleum products, an air line filter for removal of moisture and oil vapor in compressed air is required.

NOTE: Always use an air line filter to remove moisture and oil vapor when spraying paint.

Location

⚠CAUTION: Risk of personal injury. In order to avoid damaging the air compressor, do not allow the unit to be tilted more than 10° when operating.

Place air compressor at least 12" (30.5 cm) away from obstacles that may prevent proper ventilation. Keep unit away from areas that have dirt, vapor and volatile fumes in the atmosphere which may clog and gum up the intake filter and valves, causing inefficient operation.

Humid Areas

In frequently humid areas, moisture may form in the pump and produce sludge in the oil, causing running parts to wear out prematurely. Excessive moisture is especially likely to occur if the unit is located in an unheated area that is subject to large temperature changes. Two signs of excessive humidity are external condensation on the pump when it cools down and a "milky" appearance in compressor oil. You may be able to prevent moisture from forming in the pump by increasing ventilation or operating for longer intervals.

Noise Considerations

Consult local officials for information regarding acceptable noise levels in your area. To reduce excessive noise, use vibration mounts or silencers, relocate the unit or construct total enclosures or baffle walls. Contact a DeWALT service center or call 1-800-4-DEWALT for assistance.

Electrical

Refer to all safety instructions before using unit. Observe extension cord safety instructions if necessary. Always move the On/Off switch to the OFF position before removing the plug from the outlet.

Transporting

⚠WARNING: Risk of injury from lifting. Unit weighs more than 160 lbs. (72.6 kg) Do not move or lift without assistance.

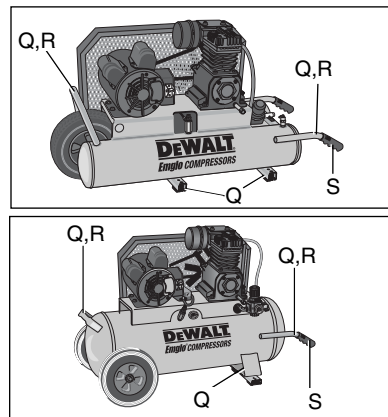
⚠CAUTION: Risk of personal injury. The wheels and handle do not provide adequate clearance, stability or support for pulling the unit up and down stairs or steps. The unit must be lifted or pushed up a ramp.

When transporting the compressor in a vehicle, trailer, etc. ensure that the air tank is drained and the unit is secured and placed on a flat horizontal surface.

NOTE: Use recommended tie down points (Q) when transporting. Use care when driving so to avoid tipping the unit over in the vehicle. Damage can occur to the unit or surrounding items if unit is tipped. Use a ramp if loading or unloading the unit from a height of more than 12" (30.5 cm).

Lifting

Always use two people when lifting and lift from the recommended lift points (R).



▲WARNING: Risk of injury from lifting. Unit weighs more than 160 lbs. (72.6 kg) Do not move or lift without assistance.

MOVING

1. Grasp handle (S) of compressor and lift compressor high enough so unit can be rolled on the front tire(s).

▲WARNING: Risk of unsafe operation. Ensure proper footing and use caution when rolling compressor so that unit does not tip or cause loss of balance.

2. When location is reached slowly lower rear of compressor to ground. Always store compressor in a horizontal position.

PREPARATION FOR USE

Pre-Start Checklist (Fig. 1)

1. Ensure the On/Off switch (C) is in the OFF position.
2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.
3. Ensure air tank is drained, see **Draining Air Tank** under *Maintenance*.
4. Ensure the drain valve (J) is closed.
5. Ensure safety valve (I) is functioning properly, see **Checking Safety Valve** under *Maintenance*.
6. Check pump oil level, see **Compressor Pump Oil** under *Maintenance*.

CAUTION: Risk of property damage. Do not operate without oil or with inadequate oil. DEWALT is not responsible for compressor failure caused by inadequate oil.

7. Turn regulator knob (F) counterclockwise until fully closed. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
8. Visually inspect drive belt. Replace belt if frayed, cracked, or worn.

NOTE: Outer belt cover must be removed to inspect drive belt.

9. Visually inspect air hose, replace if needed.

10. Attach hose and accessories.

▲WARNING: Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.

▲WARNING: Risk of Bursting. Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating.

11. Ensure all covers and labels are in place, legible (for labels) and securely mounted. Do not use compressor until all items have been verified.

Initial Set-up (Fig. 1)

▲WARNING: Do not operate this unit until you read and understand this instruction manual for safety, operation and maintenance instructions.

BREAK-IN PROCEDURE

▲WARNING: Serious damage may result if the following break-in instructions are not closely followed.

This procedure is required **before** the air compressor is put into service for the first time and when the check valve or a compressor pump/motor has been replaced.

1. Ensure the On/Off switch (C) is in the OFF position.
2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.
3. Open the drain valve (counterclockwise) fully to permit air to escape and prevent air pressure build up in the air tank during the break-in period.
4. (**D55170, D55180**) Rotate the manual lock pilot valve lever to the open position to assist with start up.

5. Move the On/Off switch to the ON position. The compressor will start.
6. Run the compressor for 20 minutes.
7. After 20 minutes, close the drain valve by turning clockwise so the air tank pressure can build.

(D55170, D55180) **NOTE:** Rotate the manual lock on the pilot valve into the closed position. **NOTE:** After the compressor reaches **blow-off** pressure the unit will continue to run but will not build additional tank pressure until the air is used and the pilot valve reset pressure is reached. A slight air noise may be heard while the air is being unloaded through the pump head.

8. Compressed air will be available until it is used or bled off.

OPERATING PROCEDURES

Start-up (Fig. 1)

1. Follow **Pre-Start Checklist** under *Preparation for Use*.
2. (D55170, D55180) Rotate the manual lock pilot valve lever to the open position to assist with start up.
3. Move the On/Off switch to the ON position. The compressor will start.
4. (D55170, D55180) Rotate manual lock pilot valve lever to the closed position to allow air tank pressure to build.
5. Allow compressor to pump up to **blow-off/cut-off** pressure.
(D55170, D55180) **NOTE:** After the compressor reaches **blow-off** pressure the unit will continue to run but will not build additional tank pressure until the air is used and the pilot valve reset pressure is reached. A slight air noise may be heard while the air is being unloaded through the pump head.

NOTE: If any unusual noise or vibration is noticed, stop the compressor and refer to the troubleshooting section.

6. Attach hose and accessory.

▲CAUTION: Risk of unsafe operation. Compressed air from the unit may contain water condensation and oil mist. Do not spray unfiltered air at an item that could be damaged by moisture. Some air operated tools or devices may require filtered air. Read the instructions for the air tool or device.

7. Adjust regulator (F) to desired setting. See **Regulator** under *Features*.

Dual Control Operation (Fig. 1)

D55395, D55570, D55575, D55580, D55585

NOTE: Compressor must be running when performing the following operation

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head, and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

▲WARNING: Risk of moving parts. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts. Air vents may cover moving parts and should be avoided as well.

STOP START MODE

1. Ensure the On/Off switch (C) is in the OFF position.
2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.
3. Open the drain valve (counter-clockwise).
4. Move the On/Off switch to the ON position. The compressor will start.
5. Turn knob on top of pilot valve (H) clockwise until fully closed.
6. Close drain valve (clockwise).

▲ WARNING: Risk of property damage. Over tightening the Pilot Valve knob can cause damage to the pilot valve.

7. Allow compressor to reach **cut-out** pressure. If compressor does not stop, contact a DEWALT service center or call 1-800-4-DEWALT for assistance.

IMPORTANT: Always turn pilot valve knob counter-clockwise until it stops before moving the On/Off switch (C) to the OFF position

CONSTANT RUN MODE

1. Ensure the On/Off switch (C) is in the OFF position.
2. Plug the power cord into the correct branch circuit receptacle. See **Voltage and Circuit Protection** under *Installation*.
3. Open the drain valve (counter-clockwise).
4. Move the On/Off switch to the ON position. The compressor will start.
5. Turn knob on top of pilot valve (H) fully counter-clockwise until fully open.
6. Close drain valve (clockwise).

▲ WARNING: Risk of property damage. Over loosening the pilot valve knob can cause damage to the pilot valve.

7. The compressor is now in constant run mode. If compressor shuts off, contact a DEWALT service center or call 1-800-4-DEWALT for assistance.

NOTE: For proper operation the pilot valve blow-off pressure must be below the pressure switch cut out pressure.

Shut-down

- 1 Move On/Off switch (C) to the OFF position. **NOTE:** If finished using compressor, follow Steps 2 - 6. **IMPORTANT:** (*D55390, D55395, D55570, D55575, D55580, D55585*) Always turn pilot valve knob clockwise until it stops before moving the On/Off switch (C) to the OFF position when unit is in the constant run mode.

2. Turn regulator knob (F) counterclockwise until fully closed. Ensure regulated pressure gauge reads 0 PSI (0 kPa).
3. Remove hose and accessory.
4. Drain the air tank, see **Draining Air Tank** under *Maintenance*. Ensure air tank pressure gauge reads 0 PSI (0 kPa).

▲ WARNING: Risk of bursting. Water will condense in air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

5. Allow the compressor to cool down.
6. Wipe air compressor clean and store in a safe, non-freezing area.

MAINTENANCE

The following procedures must be followed when maintenance or service is performed on the air compressor.

1. Ensure On/Off switch is in the OFF position.
2. Remove air compressor plug from outlet.
3. Drain air tank.
4. Allow air compressor to cool down before starting service.

NOTE: All compressed air systems contain maintenance parts (e.g., oil, filters, separators) that are periodically replaced. These used parts may contain substances that are regulated and must be disposed of in accordance with local, state, and federal laws and regulations.

NOTE: Take note of the positions and locations of parts during disassembly to make reassembly easier.

NOTE: Any service operations not included in this section should be performed by a DEWALT factory service center or a DEWALT authorized service center.

Maintenance Chart

Procedure	Daily	Weekly	Monthly	1 year or 200 Hours
Check safety valve	X			
Inspect air filter +		X		
Drain air tank***	X			
Check pump oil level	X			
Change pump oil***				X
Oil leak inspection	X			
Inspect drive belt	X			
Check drive belt tension			X	
Check pulley/flywheel alignment				X
Check for unusual noise/vibration	X			
Check for air leaks*	X			
Clean compressor exterior		X		
* To check for air leaks apply a solution of soapy water around joints. While compressor is pumping to pressure and after pressure cuts out, look for air bubbles to form.				
** The pump oil must be changed after the first 20 hours of operation. Thereafter, when using DEWALT synthetic compressor oil, change oil every 200 hours of operation or once a year, whichever comes first.				
*** Drain tanks daily or after four hours of use.				
+ Perform more frequent in dusty or humid conditions.				

Checking Safety Valve (Fig. 1)

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head, and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

▲WARNING: Risk of bursting. If the safety valve does not work properly, over-pressurization may occur, causing air tank rupture or an explosion.

Before starting compressor, pull the ring on the safety valve to make sure that the safety valve operates freely. If the valve is stuck or does not operate smoothly, it must be replaced with the same type of valve.

Checking Air Filter Element (Fig. 1)

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head, and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

1. Ensure On/Off switch is in the OFF position.
2. Allow unit to cool.
3. Remove filter (A) top from filter base by turning filter counter-clockwise about 5 degrees.
4. Separate filter top from base.
5. Remove element from filter base.
6. If element needs cleaning, blow out with air. Replace if needed. Purchase replacement parts from your local dealer or authorized service center. Always use identical replacement parts.
7. Place element back in filter base.
8. Reconnect filter top to filter base. While pushing in, rotate clockwise 5 degrees.

▲CAUTION: Risk of unsafe operation. Do not operate without air inlet filter.

Draining Air Tank (Fig. 1)

▲WARNING: Risk of unsafe operation. Risk from noise. Air tanks contain high pressure air. Keep face and other body parts away from outlet of drain. Use safety glasses [ANSI Z87.1 (CAN/CSA Z94.3)] when draining as debris can be kicked up into face. Use ear protection [ANSI S12.6 (S3.19)] as air flow noise is loud when draining.

NOTE: All compressed air systems generate condensate that accumulates in any drain point (e.g., tanks, filter, aftercoolers, dryers). This condensate contains lubricating oil and/or substances which may be regulated and must be disposed of in accordance with local, state and federal laws and regulations.

1. Ensure On/Off switch is in the OFF position.
2. Place a suitable container under the drain valve to catch discharge.

▲WARNING: Risk of bursting. Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

CAUTION: Risk of property damage. Drain water from air tank may contain oil and rust which can cause stains.

3. Grasp black lever on drain valve (J).
4. Slowly rotate lever to gradually bleed air from air tank.
5. Grasp black lever on other drain valve and rotate to approximately the same position as the first.
6. When air tank pressure gauge reads 10 PSI (68.9 kPa), rotate valve to the fully open position.
7. Close drain valves when finished.

Compressor Pump Oil (Fig. 1)

CHECKING OIL

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

▲CAUTION: Risk of unsafe operation. Overfilling with oil will cause premature compressor failure. Do not overfill.

NOTE: When filling the crankcase, the oil flows very slowly into the pump. If the oil is added too quickly, it will overflow and appear to be full.

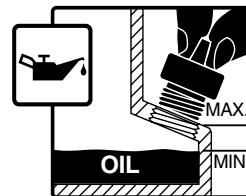
1. Ensure On/Off switch is in the OFF position.
2. Place unit on a flat level surface.
3. **FOR K PUMP UNITS**

- Remove dipstick (K) and wipe clean.
- Insert and remove dipstick without threading dipstick into crankcase as shown in figure.
- Check the oil level on dipstick. If oil level is at or below "Add", oil needs to be added. Add DEWALT synthetic oil to the proper maximum level as shown in figure.



FOR G PUMP UNITS

- Remove oil fill plug (K).
- Check the oil level. Oil should not exceed top raised line on side of crankcase. (Oil will be even with bottom of threads in crankcase fill port), if needed add DEWALT synthetic oil to the proper level.



4. Replace dipstick/oil fill plug and tighten securely.

CHANGING OIL

NOTE: Pump oil contains substances that are regulated and must be disposed of in accordance with local, state and federal laws and regulations.

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

1. Ensure On/Off switch is in the OFF position.
2. Allow the unit to cool.
3. Remove air compressor plug from outlet.
4. Drain air tank.
5. Locate a suitable container under pump drain plug (J).
6. Remove the dipstick/oil fill plug (K) from crankcase.
7. Remove the oil drain plug (L).
8. Allow ample time for all oil to drain out. (Tilting the compressor towards the drain plug will assist in draining.)
9. Install the oil drain plug.
10. Fill pump with DEWALT synthetic compressor oil.

FOR K PUMP UNITS

The oil level should be at "Add" on the dipstick.

FOR G PUMP UNITS

Oil should not exceed top raised line on side of crankcase. (Oil will be even with bottom of threads in crankcase fill port.)

11. Replace dipstick/oil fill plug and tighten securely.

Checking Belt Tension (Fig. 1)

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head, and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

1. Ensure On/Off switch is in the OFF position.
2. Allow the unit to cool.
3. Remove air compressor plug from outlet.
4. Drain air tank.

5. FOR K PUMP UNITS

Remove six belt guard mounting screws (two on the pump head and four on the deck)

FOR G PUMP UNITS

Remove seven belt guard mounting screws and J-hook (two on the pump head and four on the deck).

6. Remove outer belt cover.
7. Measure belt tension. Proper tension is achieved when a three (3) pound weight or equivalent finger pressure applied midway between the motor pulley and compressor flywheel causes a 1/4" (6.35 mm) deflection of the belt. If adjustment is needed see **Adjusting Belt Tension** under *Maintenance*.
8. Replace belt guard.

Adjusting Belt Tension

▲WARNING: Hot surfaces. Risk of burn. Aftercooler, pump head and surrounding parts are very hot, do not touch (see the Hot Surfaces identified in Fig. 2). Allow compressor to cool prior to servicing.

1. Follow procedures 1-6 in **Checking Belt Tension** under *Maintenance*.
2. Scribe a mark at the base of the pump on the deck to be used as a reference.
3. Loosen four pump mounting nuts.
4. Remove the belt.
5. Scribe a mark approximately 1/8" (3.2 mm) from the original mark.

- Slide the pump to the new mark and retighten the pump mounting nuts.

⚠WARNING: *Risk of moving parts. Use caution when rolling belt onto flywheel, fingers can get caught between the belt and flywheel.*

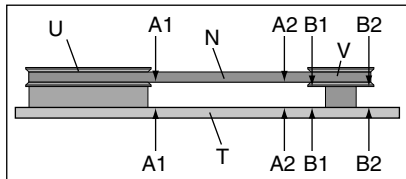
- With the pump secure, roll the belt over the flywheel and the pulley.
- Check the belt tension again. See Step 7 in **Checking Belt Tension** under *Maintenance*.
- When tension is correct, torque four pump mounting nuts (Torque to 6–8 ft.-lbs./8.1–10.8 Nm), stiffener bracket bolt (Torque to 10–12 ft.-lbs./13.5–16.3 Nm), and replace belt cover.

Pulley and Flywheel Alignment

The air compressor flywheel and motor pulley must be in-line (in the same plane) within 1/16" (1.6 mm) to ensure belt retention within flywheel belt grooves. To check alignment:

- Ensure On/Off switch is in the OFF position.
- Allow the unit to cool.
- Remove air compressor plug from outlet.
- Drain air tank.
- Remove outer belt cover.

- Place a straightedge (T) against the outside of the flywheel (U) and the motor drive pulley (V).
- Measure the distance between the edge of the belt (N) and the straightedge at points A1 and A2 in Figure. The difference between measurements should be no more than 1/16" (1.6 mm).



- If the difference is greater than 1/16" (1.6 mm), loosen the setscrew holding the motor drive pulley to the shaft and adjust the pulley's position on the shaft until the A1 and A2 measurements are within 1/16" (1.6 mm) of each other.
- Tighten the motor drive pulley setscrew. Torque to 145–165 in.-lbs. (16.4–18.6 Nm).
- Visually inspect the motor drive pulley to verify that it is perpendicular to the drive motor shaft. Points B1 and B2 of Figure should appear to be equal. If they are not, loosen the setscrew of the motor drive pulley and equalize B1 and B2, using care not to disturb the belt alignment performed in Step 8.
- Retighten the motor drive pulley setscrew. Torque to 145–165 in.-lbs. (16.4–18.6 Nm).
- Reinstall belt guard.

ACCESSORIES

Recommended accessories for use with your tool are available for purchase from your local dealer or authorized service center. If you need assistance in locating any accessory for your tool, please contact DEWALT Industrial Tool Co., 701 East Joppa Road, Baltimore, MD 21286, call 1-800-4-DEWALT (1-800-433-9258).

⚠CAUTION: *The use of any other accessory not recommended for use with this tool could be hazardous. Use only accessories rated equal to or higher than the rating of the air compressor.*

SERVICE INFORMATION

Please have the following information available for all service calls:

Model Number _____ Serial Number _____

Date and Place of Purchase _____

GLOSSARY

CFM: Cubic feet per minute.

SCFM: Standard cubic feet per minute; a unit of measure of air delivery.

PSI: Pounds per square inch; a unit of measure of pressure.

kPa (kilopascal): Metric pressure measurement. 1 kilopascal equal 1000 pascals.

Code Certification: Products that bear one or more of the following marks: UL, CUL, ETL, CETL, have been evaluated by OSHA certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety.

California Code: Unit may comply with California Code 462 (I) (2)/(M) (2). Specification/model label is on the side of the air tank on units that comply with California Code.

Pilot Valve Blow-Off Pressure: Continuous running units are controlled by air tank pressure. When the maximum air tank pressure is obtained, the pilot valve will blow-off. This will cause the compressor to exhaust the air through the pump head and not fill the tank. This decreases the load on the motor and allows it to run at a near no-load condition. **NOTE:** For proper operation the pilot valve blow-off pressure must be below the pressure switch cut-out pressure.

Pilot Valve Reset Pressure: When the air tank pressure drops to a predetermined point, the pilot valve closes. The air tank pressure will now increase until it reaches the pilot valve blow-off pressure.

Cut-In Pressure: While the motor is off, air tank pressure drops when accessory is used. When the tank pressure drops to a certain low level the motor will restart automatically. The low pressure at which the motor automatically restarts is called **cut-in** pressure.

Cut-Out Pressure: When an air compressor is turned on and begins to run, air pressure in the air tank begins to build. It builds to a certain high pressure before the motor automatically shuts off, protecting your air tank from pressure higher than its capacity. The high pressure at which the motor shuts off is called **cut-out** pressure.

Branch Circuit: The circuit carrying electricity from electrical panel to outlet.

Duty Cycle: This air compressor pump is capable of running continuously. However, to prolong the life of your air compressor, it is recommended that a 50%-75% average duty cycle be maintained; that is, the air compressor pump should not run more than 30-45 minutes in any given hour.

Troubleshooting Guide

This section provides a list of the more frequently encountered malfunctions, their causes and corrective actions. The operator or maintenance personnel can perform some corrective actions, and others may require the assistance of a qualified DEWALT technician or your dealer.

Problem	Code
Excessive air tank pressure-safety valve pops off	1
Air leaks	2
Continuous air leak at pilot valve.....	3
Air leaks in air tank or at air tank welds	4
Air leaks between head and valve plate	5
Air leaks from safety valve.....	6
Compressor is not supplying enough air to operate accessories.....	2,7,8,9,10,12,13
Restricted air intake	12
Excessive vibration	14
Problem	Code
Knocking noise	3,6,13,14,16,17,18,19
Excessive belt wear	13,14,16,19,20
Squealing sound	13,23
Motor will not run	15,21,22,32,34,35,36
Pressure reading on the regulated pressure gauge drops when an accessory is used	24
Regulator knob has continuous air leak	25
Regulator will not shut off air outlet	25
Moisture in pump crankcase.....	2,5,11,26,27,28,29,30,31
Pump will not run.....	32
Air tank pressure will not build.....	32,33

Troubleshooting Codes

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
1	Pilot valve does not release pressure when air tank reaches blow-off pressure	Pilot valve must be replaced. Contact a DEWALT factory service center or a DEWALT authorized service center.
2	Fittings are not tight	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. DO NOT OVERTIGHTEN.
3	Defective pilot valve	Turn off motor, rotate manual lock/unloader lever to the closed perpendicular position. If air leaks out of air tank through pilot valve, replace pilot valve.
4	Defective air tank	Air tank must be replaced. Do not repair the leak. ▲WARNING: Risk of bursting. Do not drill into, weld or otherwise modify air tank or it will weaken. The air tank can rupture or explode.
5	Leaking seals	Contact a DEWALT factory service center or a DEWALT authorized service center.
6	Defective safety valve	Operate safety valve manually by pulling on ring. If valve still leaks, it must be replaced.
7	Prolonged excessive use of air	Decrease amount of air usage.
8	Compressor is not large enough for accessory	Check the accessory air requirement. If it is higher than the SCFM or pressure supplied by your air compressor, a larger compressor is needed to operate accessory.
9	Hole in air hose	Check and replace air hose, if required.
10	Pilot valve restricted	Remove, clean or replace.
11	Unit operating in damp or humid conditions	Move unit to a dry well ventilated area.
12	Restricted air intake filter	Clean or replace air intake filter.

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
13	Loose belt	Check belt tension, see Adjusting Belt Tension under <i>Maintenance</i> .
14	Pump or motor mounting nuts are loose	Torque pump mounting nuts to 6–8 ft.-lbs. (8.1–10.8 Nm). Torque motor mounting bolts to 100–120 in.-lbs. (11.3–13.6 Nm). ▲WARNING: <i>Risk of bursting. Excessive vibration could weaken the air tank and cause it to rupture or explode. Mounting screws must be kept tightened.</i>
15	Motor overload protection switch has tripped	See Motor Overload under <i>Features</i> .
16	Loose pulley	Tighten pulley set screw, torque to 145–165 in.-lbs. (16.4–18.6 Nm).
17	Loose flywheel	Tighten flywheel screw, torque to 15–18 ft.-lbs. (20.3–24.4 Nm).
18	Carbon build-up in pump	Contact a DEWALT factory service center or a DEWALT authorized service center.
19	Belt too tight	Check belt tension, see Adjusting Belt Tension under <i>Maintenance</i> .
20	Pulley misalignment	See Motor Pulley/Flywheel Alignment under <i>Maintenance</i> .
21	Extension cord is wrong length or gauge	Check for proper gauge wire and cord length. See Extension Cords under <i>Installation</i> .
22	Loose electrical connections	Contact a DEWALT factory service center or a DEWALT authorized service center.
23	Pump oil is low	Add DEWALT synthetic compressor oil to pump. See Compressor Pump Oil under <i>Maintenance</i> .

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
24	Regulator is not adjusted correctly for accessory being used	It is normal for some pressure drop to occur when an accessory is used, adjust the regulator as instructed in Regulator under <i>Features</i> if pressure drop is excessive. NOTE: Adjust the regulated pressure under flow conditions while accessory is being used.
25	Damaged regulator	Replace.
26	Detergent type oil being used in pump	Drain oil and refill pump with DEWALT synthetic compressor oil.
27	Extremely light duty cycles	Run unit for longer duty cycles. It is recommended that a 50%-75% average duty cycle be maintained; that is, the air compressor pump should not run more than 30-45 minutes in any given hour.
28	Piston rings damaged or worn	Contact a DEWALT factory service center or a DEWALT authorized service center.
29	Cylinder or piston damaged or worn	Contact a DEWALT factory service center or a DEWALT authorized service center.
30	Compressor cylinder finish worn	Contact a DEWALT factory service center or a DEWALT authorized service center.
31	Water in pump oil	Drain oil and refill pump with DEWALT synthetic compressor oil.
32	D55170, D55180 Manual lock/unloader lever in open position D55390, D55395, D55570, D55575, D55580, D55585 Pilot valve knob is in the open position	Rotate manual lock/unloader lever to the closed perpendicular position. Turn pilot valve knob clockwise until it stops.

CODE	POSSIBLE CAUSE	POSSIBLE SOLUTION
33	Regulator open	Rotate the regulator knob counterclockwise to its built-in stop and push knob in to lock in place.
34	Possible defective motor or starting capacitor	Contact a DEWALT factory service center or a DEWALT authorized service center.
35	Paint spray on internal motor parts	Contact a DEWALT factory service center or a DEWALT authorized service center. Do not operate the compressor in the paint spray area. See flammable vapor warning.
36	Fuse blown, circuit breaker tripped	1. Check fuse box for blown fuse and replace as necessary. Reset circuit breaker. Do not use a fuse or circuit breaker with higher rating than that specified for your particular branch circuit. 2. Check for proper fuse. You should use a time delay fuse. 3. Check for low voltage conditions and/or proper extension cord. 4. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit.